

# FACULTY VOTES CHANGE IN MARKING PLAN

## HOCKEY SIX IS PRIMED TO OPPOSE HARVARD PUCK TEAM TONIGHT

### PRACTICE DURING RECENT HOLIDAYS BUILDS UP POWER

Harvard Has Record of 2 Wins  
—Loses to Toronto U.  
By 4 Goals

### BEAVERS HAVE RESERVES

Continuing a season in which they have already shown themselves to be a snappy bunch of hockey players, the Varsity sextet will meet Harvard tonight in one of the big games of the year. The teams will face off at 8:15 o'clock on the big rink at the Boston Garden. Technology has the advantage of a period of strenuous practice which was held throughout the Christmas vacation after their victory over Boston University. They have shown much improvement, and have high hopes of coming through with another win.

#### Harvard Is Strong

The Crimson team has its usual aggregation of stellar puck-chasers, with Woods, Mays, Cunningham, and several others among the new material. In spite of the fact that they lost four members of last year's Varsity six by graduation, they have one of the best teams in a number of years. The Harvard squad is sitting pretty with wins to date over Boston University and the University Club, and one defeat at the hands of Toronto U. The loss of Gibbons, captain of last year's team, is the greatest obstacle which the Crimson has had to overcome this season. The squad is composed of about half Sophomores, most of them from the football team.

#### Engineers' Lineup

The starting lineup for Technology will probably look like the following: Captain Cullinan, right wing; Hall, left wing; Lucey, center; Hazeltine, right defense; Peterson, left defense; Riley, goal. Coach Stewart is planning on put-

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### Technology May Enter In Winter Sports Carnival

Outing Club of Dartmouth  
College Will Be Host  
During Meet

Technology is among the schools invited to compete in the twentieth annual Winter Sports Meet held by the Outing Club of Dartmouth College at Hanover, New Hampshire on February 6, 7, and 8 inclusive. The members of the various teams taking part in the meet will be the guests of the Dartmouth Outing Club, and all arrangements for their entertainment will be made in advance.

This meet will take place at the same time as the Dartmouth Winter Sports Carnival, and contests in several of the winter sports will be staged with other schools. There will be a hockey game between Dartmouth and Harvard, a swimming meet between Dartmouth and Rutgers, and a basketball game between Yale and Dartmouth among the number.

#### Medals Will be Awarded

The events scheduled in the meet will be those customarily included in all winter sports carnivals. The contestants will abide by the rules of the Intercollegiate Winter Sports Union during the events. The Dartmouth Winter Carnival Medal in gold, silver, and bronze will be awarded to the winners of the first four places in the various individual contests that are scheduled.

### DORCLAN INCLUDES 26 MEN AT PRESENT

Dorclan, one of the honorary dormitory societies, which is active in handling the social affairs and the sports of the dormitories, includes 26 men at present, after initiating eight at their banquet just before vacation. The name of one of the new members of the society was omitted in one of the former issues of THE TECH and is Donald W. Diefendorf '30, editor in chief of the "Dorm Rumor".

## Mrs. Richards, First Woman Graduate Developed Food and Water Chemistry

### Did Research Work on Dangers Of Spontaneous Combustion Of Various Oils

Mrs. Ellen H. Richards '73, the first woman graduate of the Institute and connected with it for 40 years, was a professor of the Department of Biology and Public Health. Among her contributions to science are the development of household economics and the chemistry of water and foods. Her social service work and interest in the betterment of living conditions gained for her a wide acquaintance among scientific organizations.

During the period directly following her graduation from the Institute, Mrs. Richards was active in various fields. A part of her time was given to teaching, but much of it was devoted to the assistance of Professor William R. Nichols '69 in his work on water supplies. It was also during this period that the Women's Laboratory was established to afford better opportunities for the scientific education of women. It was housed in a portion of a one-story structure between the original sites of the Rogers and Walker buildings.

#### Worked on Spontaneous Combustion

Her association with Professor John M. Ordway laid the foundation of her work as chemist to the Mutual Fire Insurance Company in which she engaged in research bearing upon the danger from spontaneous combustion of various oils in commercial use. It also gave her a valuable training in

technical problems which helped in her position as a teacher.

When, in 1887, the state board of health began a comprehensive survey of the water supplies of the state Mrs. Richards was called to administer and supervise the laboratory for water analysis which was located in Walker Memorial. Here a few years later a celebration was held when the ten thousandth specimen of water was analysed. Here also was prepared a "normal chlorine" map of Massachusetts which has served as a model for similar undertakings.

Shortly after having received her degree from the Institute Mrs. Richards was appointed instructor in Sanitary Chemistry, a position which was held until her death. For many years she directed the entire instruction in the chemistry of air, water, and foods and only gave up the chemistry of food supplies when the pressure of other work made this necessary. She also maintained a private practice in sanitary chemistry and acted in an advisory capacity to many public and private institutions. Her publications relating to sanitation have been numerous and varied and she retained an active membership in societies dealing with water supplies and public health problems.

One of the most important aspects of Mrs. Richards' life work was her leadership in matters pertaining to home economics and to the education of women. She was interested in all problems having to do with the conservation of human life and energy

(Continued on Page 3)

### They Won't Get Rose Water From Oil Sludge

That abominable stench which has lately pervaded the scented atmosphere of Buildings two, four, and ten, is not the result of a school-wide epidemic of halitosis. Some evidently unsmelling seniors have joined in the national occupation of getting something out of nothing and are trying to get a useful product from oil sludge. The ambitious fellows are boiling the waste product in order to disintegrate the organic compounds, without any regard for the olfactory nerves.

## TRACK MEN PLAN GREATER BOSTON RELAY CONTESTS

Teams Entered in Medley Race  
Will Represent Towns  
About Boston

### SOMERVILLE IS STRONG

Nine Suburbs Have Full Teams  
On Signup List at the  
Present Time

During the Christmas vacation the members of the track squad who live in and about Boston have aroused a great deal of enthusiasm over an innovation which is to be known as the Suburban Relay Meet. Due to the large number of men who come from the nearby towns, it was suggested that enough good material might be assembled to have a four-man team to represent each town in a meet which is scheduled to take place in the near future.

According to the plans that have been made to date, this affair will be a medley race, the first man running 220 yards, the second 440, the third 880, and the fourth one mile. It will probably be held in connection with one of the handicap meets which are on the program for the current season. The nature of a medley race is such that each town will be able to use its best runners, whether they are sprinters or distance men.

#### 14 Towns On List

A list has been placed on the bulletin board in the track house for sign-ups, and already there are 14 cities and towns represented by one or more names. Quincy and Roxbury lead at present with seven names each. Brookline and Cambridge both have six, Newton and Lowell, five, Somerville, Watertown, and Boston, four, Winchester, Lawrence, and Rochester, N. Y., three, Medford, two, and Brockton, one. This meet was instigated by the men themselves, and the interest that has been shown up to the present indicates a large field and a contest that will be both novel and worthwhile.

Due to the number of teams that will doubtlessly enter, the meet will be run as several separate races, the best time winning.

#### Somerville and Quincy Lead

Somerville already has a team that looks formidable, with Herbert, Ladd, Berry, and Wall on its roster. These men have all been consistent winners in the past and have enough versatility to form an organization that will be hard to meet in a race of this sort. Quincy also has a promising bunch, with Baltzer, Allbright, Gilman, Dexter, and Wayne.

The plans for the meet are rapidly taking shape, and should be ready for a definite statement within a few days.

Due to the fact that the recent rains have softened the sod along the entrance on Massachusetts Avenue, it has been necessary to construct a fence to protect the sod from the straying feet of the men who use the entrance. The fence is of wire supported on iron posts and will prove sufficient to resist any efforts to which it may be subjected.

## REPORTS OF THE FIRST SEMESTER WILL HAVE NEW PASSING MARKS

### Arthur Whiting To Give Second Concert Tomorrow

Musician Transcribes Handel  
Selection for Second  
Number

Mr. Arthur Whiting, who has for past years entertained the student body with his concerts, will give his second recital of the school year tomorrow evening at 8:15 o'clock in Room 10-250. President Samuel W. Stratton has invited along with the members of the student body the Faculty and the instructing staff.

It is expected that the attendance at tomorrow's concert will be greater than at the first one of the season. The program which will be presented will be as follows:

Cesar Frank, 1822-1890  
Prelude, Choral et Fugue, B Minor.  
Handel, 1685-1759  
Suite G major, for Harpsichord  
Prelude—Allemande, Menuet, Gavotte, Sarabande, Passacaille, Gigue.  
Brahms, 1833-1897  
Waltzer, opus 39.  
Debussy, 1862-1918  
Reflets dans l'eau  
Poissons d'or.  
Chopin, 1809-1849  
Fantasie, F minor, opus 49  
Nocturne, C sharp minor, opus 27  
Polonaise militaire, A major, opus 40.  
The selection by Handel has been transcribed for the pianoforte by Mr. Whiting.

### POSTERS FOR SHOW CONTEST DUE TODAY

Designs Entered in Competition  
Should Be Turned in

All posters for the Tech Show competition must be handed in before noon today either to Professor William Emerson at Rogers or at the office of the Show on the third floor of Walker Memorial. First and second prizes of four and two tickets respectively have been offered for the winning designs. Announcement of the winning posters will be made as soon as the posters have been judged.

Both chorus and cast rehearsals will be resumed. During this week the chorus will rehearse Tuesday, Thursday, and Sunday evening at 7:30 in the Walker Gymnasium. The cast will practice Wednesday night in the gym. All men connected with either part of the show must be present.

There is an opportunity for men interested in designing, making and painting scenery to work with Tech Show as the construction of scenery is now under way. Anyone desiring to do work of this kind should report at the show office any afternoon after 5 o'clock.

### MUSICAL CLUBS WILL GIVE EDISON CONCERT

Annual Affair to be Held at  
Edison Club Tonight

Following the custom of previous years, the Combined Musical Clubs will give a concert at the Edison Employees' Club at 8:30 o'clock tonight. The concert, which is given for the employees of the Edison Electric Illuminating Company, will be held at the club house at 1165 Massachusetts Avenue in Boston.

A variety of selections has been arranged for the occasion and will include a number of classical and semi-classical numbers which are being introduced this season. In addition, several specialty acts will be given to make up the program. Dancing will follow the concert and continue until 12 o'clock, music being furnished by the Techonians.

## RULING PROVIDES FOR FOUR PASSING GRADES IN FUTURE

Faculty Decides That Range of  
Present Mark P Covers  
Too Much Ground

### PRESENT SYSTEM UNFAIR

Instituting a new system of marking for this term the Faculty decided at its last meeting that from now on there will be four passing grades instead of three as is now the custom. This new grading system is being re-introduced since it was used many years ago at the Institute and was subsequently abolished.

Under the new program the range of points between 60 and 100 will be divided into four parts instead of the present three. It has not yet been decided what to call the new low passing grade although the next succeeding grade below a P is L. This may or may not be used but the question will be decided later.

#### Wide Range of Grades

In making this change the Faculty decided that the present range of a P grade covers too much ground, that is from 60 to 75. Although this grade is a source of personal satisfaction to those students who barely pass the course it was felt by the Faculty that it was unfair to those whose grades were between 70 and 75. They felt that those students deserved a higher grade than those who had just slipped by.

For the lower marks the single F will represent grades between 40 and 60 while the double F will designate grades below 40. As is now the custom, failure to pass a condition examination will automatically change the grade to a double F.

At the next meeting of the Faculty which will be held on January 15 the question of using the standard grades A, B, C, and D instead of the Institute grades H, C, P and the new passing mark will be discussed. However, it is not known as yet whether this plan will be accepted. Unless changes are made the new system of four passing grades will go into effect with the sending out of the first term marks at the end of the semester.

## TO OUTLINE METHODS OF AUTO SERVICING

Cadillac Manager Will Speak  
At S. A. E. Open Meeting

Explanation of Cadillac servicing will feature the year's first meeting of the student branch of the Society of Automotive Engineers to be held next Friday at the Institute. Mr. Elmer Fuller, head of the Service Department of the new Cadillac plant on Commonwealth Avenue, will be the speaker of the day, and will outline the work of this department.

This meeting will be open to all students at the Institute, and further details will be announced later. Mr. Fuller announces that students interested may visit and inspect the servicing plant at some time following the lecture.

## GOODYEAR CO. SENDS MAN FOR INTERVIEWS

Seniors will have the opportunity of interviewing a man representing the Goodyear Tire and Rubber Company and all subsidiary companies including the Goodyear Zeppelin Company on Tuesday, Wednesday, and Thursday of this week. Appointments for interviews in Room 2-131 may be made tomorrow from 3:00 until 5:00 o'clock and on Wednesday and Thursday from 9:00 until 12:00 o'clock.

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### INCREASED LIBERALITY

AS both a welcome and an unwelcome change comes the announcement of the Faculty that the marking system is to be modified to include a fourth passing grade. This more exact qualification of the students' worth cannot fail to give occasion to much discussion.

While to the instructor more freedom is given, allowing him to pass the hard worker who barely reaches the passing grade, and in distinguishing the ambitious man from the competent sluggard, there are those students who are satisfied with a grade of "P" because it is so inclusive. A simple "scraping by" mark would not offer the same excuse for laziness.

There is the possibility that the introduction of such a grade will call forth sooner or later a new ruling from the Faculty to the effect that the recipient of a degree may not have more than a certain percentage of grades implying "passed with low standing". Other colleges of the country have "Ten Percent Rulings" which give this effect, and the standard of the college is kept high by this expedient.

That the standard of the Institute can be lowered by an improper interpretation of the new rule can easily be seen. Frequently a student is surprised at receiving a passing grade when he has resigned himself to a failure, and the new grade may even extend the innate quality of soft-heartedness on the part of the instructor. Yet every submittal of grades is checked in such a manner as to discover immediately any great variation from the customary condition. The large number of students involved permits fairly exacting generalizations, and every deviation is investigated with care.

This is the ultimate check on the grading of an instructor. He is given the liberty of deciding what grades he shall give, he may even decide at the end of the term that his standards have been too high, and raise the grades of the whole class. Still too great a variation from the past facts always prompts an investigation, whether the percentage of failures is above or below that of previous years.

There is one thing that the student too often forgets; that the instructor who gives the mark is a person, and has the feelings of a person. Without playing up to these feelings, the student can create a good impression, and give the instructor an inkling as to what is going on in his mind. If a man works hard in the effort to receive good marks, and at the same time does not try to create the impression in class that he is earnest and serious in his purpose, he automatically tends to defeat that purpose. Too many serious students place small significance on the class hour.

The mechanics of the system is also an interesting question in the mind of the undergraduate. The mere addition of the grade "L" to the existing system would carry with it a horror of receiving this grade almost as great as that of receiving an "F". The proposed amendment of the system to correspond with other schools would be the more popular suggestion. Although there is a small percentage of the Faculty which holds this to be a sacrifice of originality, we can see no harm in standardization in this respect. Such originality is more in the nature of peculiarity, and if it has no justification other than its peculiarity, then its discontinuance can be no loss. Our present grades must always be interpreted to the uninitiate as they stand, and sometimes this becomes a tiresome reiteration.

### As We See the Movies

#### THE METROPOLITAN

A careful and wisely chosen cast of proved stars puts "Sacred Flame" in a place of its own among fine talking pictures. In this all-talking feature, produced by Warner Brothers, such famous people as Pauline Frederick, Conrad Nagel, Lila Lee, Alec Francis, William Courtenay and Dale Fuller are seen to their best advantage.

This is a picture which could never have been produced effectively with the old silent methods. It is a stirring play, given a wider scope through the use of the vitaphone.

As "Captain Taylor", an intrepid aviator, Conrad Nagel is injured for life a few minutes after his marriage. His wife's devotion to him, and her struggle against her loyalty to him, and her natural instincts furnishes the plot. Condemned to a wheelchair, Captain Taylor sees his younger brother, typifying all he might have been, come in and take his wife's affection. The piece is strongly emotional—perhaps its one draw back is the over-emphasis of the tragic situations which arise. Excellent dialogue between Pauline Frederick, as the Captain's mother, and Dale Fuller, his nurse, features the startling climax. Alec Francis, the kind doctor, is in character as usual.

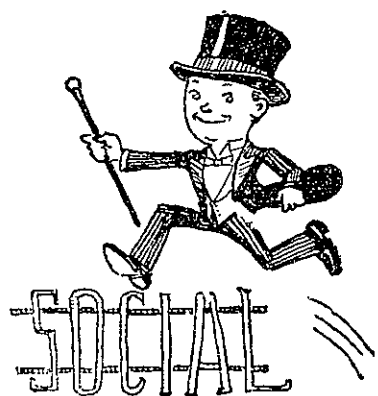
Presenting as it does an unusual aspect to the modern problem, the picture has much food for thought. It includes none of the objectionable characteristics of most sound pictures—we were glad to see one movie without the omnipresent back stage setting. As an example of fine acting and brilliant characterization "Sacred Flame" is a complete success.

Not so with the comedy. "Dancing Gobs", featuring Buster West, is merely a modern interpretation, only slightly modified, of the old time slapstick farce.

The stage show is a clever idea of Boris Petroff's, well executed and colorful. "For Art's Sake" is good, with some unusual numbers and a competent cast throughout.

### THE EDITORIAL SPECULUM

Articles written by Mr. Heywood Brown usually present fruitful subjects for discussion, and his latest in the January issue of "The Nation" is no exception. Here he accuses the daily press of being too prudish and "namby-pamby" about printing all the sordid details of the murder and divorce cases which furnish a great part of the stock in trade of the tabloids. He declares against censorship of the theatre, and follows this up by upbraiding the newspapers and the radio for their "squeamishness" in dealing with matters of sex and morality. He says that, "Sensationalism and yellowness do not arise from overem-



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### Student's Scholarship Record Generally Is An Accurate Index of Future Success

#### Col. R. I. Rees Substantiates Theory With Figures of Bell System

That the future of a student after graduating from an engineering school may be accurately forecast from his college record is the belief of Colonel R. I. Rees, President of the Society for the Promotion of Engineering Education. Colonel Rees, in an article written for the McGraw-Hill Publishing Company, gives the results of a survey conducted by President W. S. Gifford of the American Telephone and Telegraph Company, and draws the above conclusion from this data, which was published in the May, 1928 issue of Harper's Magazine.

President Gifford's article presented a study of the relation of scholarship to progress in the Bell System. In cooperation with the colleges the records of 3,806 men were examined and tabulated, and compared with their records in the Bell organization after graduation. The index of progress used was that of salary advancement, this being considered a fairly accurate indication of responsibility and authority. Results showed that the average salary of men in the first tenth of their class was 10% more than the average salary of the entire

group 10 years after graduation, 30% more 20 years after, and 55% more 30 years after. The average of the first third was 20% more than the general average 30 years after graduation, the middle third 5% less, and the lower third 20% less.

#### Activities Not Important

According to Colonel Rees, studies of the influence of extra-curricular activities on progress in the Bell System are very inconclusive. The progress of a substantial number of graduates was studied in relation to the degree of their achievement in various kinds of activity while in college, and while no definite conclusions could be drawn, Colonel Rees feels safe in stating that participation in extra-curricular activity has not as much good influence on the student's future as scholarship, although this is much less true of art graduates than of engineering students.

Another generalization warranted by the accumulated data is that in the type of campus achievement, those who participated in the groups which required intellectual effort seem to make better progress after graduation. The conclusion seems to be that those in the literary, editorial and managerial fields have some advantage over those in social, athletic, and musical or dramatic endeavors.

phasis so much as from paucity of examination."

To argue against government censorship of the stage, and to use this in turn as an argument against the entirely justifiable reticence of most editors in printing such details is certainly illogical. Government censorship is wrong in principle, and is at best a mere expedient; but we cannot pass up the fact that the theatre, as well as the press, has a very clear duty in the matter, a duty which is often neglected, either consciously or unconsciously. To safeguard public morality is the highest duty of a newspaper. Publishing the details of the sordid tragedies in the private lives of mismatched couples is not conducive to this end. Plays, books, and newspapers should be censored, not by the government, but by the authors who produce them. The business of a newspaper is to give the public not what it wants, but what it should have, and the editor who forgets this is offending not merely "good taste", but common sense and morality.

### Play Directory

#### Stage

MAJESTIC: "Mademoiselle Modiste". Has not deteriorated with age.  
SHUBERT: "Pleasure Bound". Rough and ready revue.  
COPLEY: "The Middle Watch". Naval farce, well done.  
PLYMOUTH: "House of Fear". Vigorous and entertaining mystery play.  
TREMONT: "Hot Chocolates". Characteristic negro musical revue.  
HOLLIS: "Major Barbara". Shavian wit and philosophy, still entertaining after 25 years.

#### Screen

METROPOLITAN: "The Sacred Flame". Reviewed on this page.  
OLYMPIA and UPTOWN: "No, No, Nanette". Retains the best features (Continued on Page 4)



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SEASON OPENS SATURDAY

Freshmen Will Meet St. John's  
Prep in First Indoor  
Competition

Saturday marks the beginning of the winter track season which will continue to be teeming with activity until the team returns to the cinders in the spring. Many of the candidates who live near Boston have been training faithfully during the holidays, there has been an encouraging turnout since the reopening of school last week. The relay material looks very good, and there are a large number of stellar performers in the other events of the board track.

**Handicap Meet Saturday**  
Coach Hedlund is losing no time in getting the men into action, as he is planning to run another handicap meet Saturday afternoon. This will be similar to the other meets which have been held since the Institute opened in the fall, and the handicaps will be such as to enable everyone to share equally in chances for points toward the cup that is given each year. The field events men have been entered in the Open Handicap Athletic Meet which will be held Saturday evening at 11:30 o'clock under the auspices of the Huntington Avenue Branch of the Boston Y. M. C. A. This meet is sanctioned by the N. E. A. A. U. and will be governed by the rules of this association. The handicaps will be assigned by the official handicapper of the N. E. A. A. U.

**Medals Given**  
The winners in the various events of this meet will be presented with medals, gold for first place, silver for second, and bronze for third. The Institute will be represented in the high jump and shot put, and should be able to collect a few points, judging by the calibre of the men who have been entered.

In the high jump the names of Coon, Sullivan, Zigler, Benjamin, Pierce, and Butkus have been added to the list, while the shot put will be taken care of by Leino, Bailey, Dahl-Hansen, and Grondal. All of these men can give a good account of themselves in a competition of amateur athletes of their class.

**Freshman Meet**  
The freshman squad will have their first meet on Saturday, January 18. St. John's Prep School of Danvers will be opponents, and they have a reputation for good teams in the past. The freshmen have a number of exceptionally good men this year, which points to a lively contest in this first encounter.

ALL THREE SQUASH  
TEAMS MEET DEFEAT

Class C Team Loses to Walkover Club in Close Contest

Saturday afternoon was a disastrous one for the Technology squash teams as all three teams met defeat, the Class B team losing 5-0 to the Union Boat Club, the Class C team losing 3-2 to the Walkover Club, and the Class D team losing 5-0 to the Harvard Medical School.

In the Class B league, Technology team is in last position, having lost 20 matches and won 0. The Class C team stands tenth among the fifteen members of the league, having won 6 and lost 9 matches. In the Class D league, the Technology team is in the thirteenth position, having won 5 and lost 15 matches. There are sixteen members in this league.

CHESS TEAM LOSES  
TO BOSTON Y. M. C. A.

Speir, Wiedner Win Matches  
Calvert Gained a Tie

Playing its fourth match of the season, the Technology Chess team met its first defeat. The team met the players of the Boston Y. M. C. A. at the Huntington Avenue branch. Henry J. Wiedner '33, and Frank Speir '32 won their matches, and Benjamin G. Calvert G tied his match with Kelly of the Y. M. C. A. Harry L. Boehner '30, and Serge E. Kondrashoff G, lost carefully played games, as did Stefan Van Norman '30. The final score was 3½ to 2½.

Wiedner played a various fast and skillful game to win, and Speir won with a five pawn advantage. Kondrashoff, although he had the advantage of a piece, he was unable to stop a passed pawn from becoming a queen.

VARSITY HOCKEY TEAM TO MEET  
HARVARD SIX AT BOSTON GARDEN



Standing: Coach Stewart, Regan, Fahey, Wyszynski, Marvin, Lucey.—  
Kneeling: Captain Cullinan, Riley, Peterson, Hazeltine.

DORMITORY MEN HOLD  
FORMAL DANCE FRIDAY

Dancing Scheduled From 9 to 2  
—Music by Techntonians

For the third time this year the dormitory men will gather for a formal dorm dance, to be held on Friday evening of this week in the North Hall of Walker Memorial. Dancing will begin at 9 o'clock and continue until 2, music being furnished by the Techntonians.

As usual at these affairs, the hall will be transformed from its usual appearance by the use of very subdued lighting, a feature which has always proved popular with the patrons of the events.

Patronesses at the dance will be Mrs. Charles R. Gow, and Mrs. Horace S. Ford. The tickets, priced at \$2.50 per couple, may be secured from any member of the Committee in charge or from the Dormitory Office.

ELECTRIC COMPANIES  
TO HOLD INTERVIEWS

Westinghouse and G. E. Representatives Here This Week

Representatives of the General Electric Company and of the Westinghouse Electric and Manufacturing Company will be at the Institute this week to interview students in regard to employment. Those students who desire interviews should make an appointment as soon as possible due to the limited amount of time available.

Appointments with the G. E. representatives may be made in Room 3-210 for the interviews which will be held today and tomorrow only, in Room 3-209. A general talk will be given today at 12:30 o'clock in Room 10-275. Appointments for the Westinghouse representatives may be made in Room 3-207 any day this week and the interviews will be held in the same room on Wednesday, Thursday, and Friday. D. Ross '27 will explain the sales training course offered by this company and W. I. Bender '28 will explain the engineering courses.

Students in Washington High schools may be refused diplomas if their necks are dirty, according to a report of the rules committee of the board of education.

HOCKEY TEAM PLAYS  
HARVARD AT GARDEN

Strong Crimson Aggregation  
Faces Beavers Tonight

(Continued from page 1)  
ting the second string forward line in during the course of the game in order to keep the players fresh. For this substitution he has Regan, Marvin, Ford, and Fahey from which to pick his attack men, while Wyszynski will be held in reserve for the defense.

It is very desirable that the team have a large attendance at the game, which cannot fail to repay any interest that is shown in this way. Tickets may be obtained at the box office at Boston Garden tonight before the game.

**Crimson Starters**  
The Harvard six will probably start with Putnam on the ice at center, and Holbrook and Mays in the forward line. The other men who are available in these berths are Wood, Cross, Harding, Stubbs, and Lakin. For the defense line the probable starters will be Cunningham, and Garrison or Wood. There are several reserves, including Batchelder and a number of others, while Draper or Ellis are slated to fill in at goal. After their defeat last Thursday by Toronto by the score of 6 to 2, the Crimson squad is out for vengeance, and should furnish plenty of obstacles for the Engineer puck-chasers.

On the other hand, the Technology team has shown unusual promise this season, and Coach Stewart is reasonably hopeful that they will be able to show up even more successfully than in the past.

**Team Will Make Trip**  
Starting Thursday the Varsity squad will go on the road for its first trip. During the tour they will play Clarkson College on Friday at Potsdam, N. Y. From there they will jump to Canton, N. Y., on Saturday to meet St. Lawrence University. Both of these opposing teams have had very good records in the past, and have defeated aggregations of the highest calibre. Last season they included Dartmouth among their victims, and there is every reason to believe that the present sextets are just as good. Following the New York trip the first game will be played at Williams town, with Williams College as their opponents.

Liberal Club To  
Hear Jose Kelly

Talk on Modern Mexico Will  
Be Presented by Mexican  
Commissioner

Jose Kelly, Commissioner of Commerce, Industry, and Labor of the Mexican Republic will address the Student Liberal Club tomorrow afternoon at four o'clock in Room 3-270 on "The Truth About Mexico." He will attempt to explain the complexities of the present day Mexican situation.

Although born a Mexican, Mr. Kelly has spent a great deal of his life in the United States, having attended public school in Long Beach, California, and later having graduated with an engineer's degree from Cornell University.

**Serves in Reconstruction**  
During the past few years, Commissioner Kelly has been active in the extensive reconstruction work that has taken place in his native country, his engineering training and knowledge of our language and methods having blended well with his knowledge of the Mexican dialects and customs.

The Mexican Commissioner has become well known in this country through his lectures, having addressed various open forums throughout the country, Rotary and Kiwanis clubs, and College, and Civic Clubs. His topic for tomorrow afternoon, "The Truth About Mexico Today," has been selected by the Liberal Club as one of his best and most interesting.

All are welcome to attend, since the Liberal Club feels that both members of the faculty and student body should be especially interested in information as to the real conditions to be encountered in present day Mexico.

MRS. ELLEN RICHARDS  
WAS FIRST GRADUATE

Developed Research in Chemistry of Food and Water

(Continued from page 1)  
In this work she travelled widely throughout the country on several lecturing tours.

Mrs. Richards is a graduate of Vassar College where she later received the degree of master of arts. She was also for many years a member of the board of trustees of this institution. Smith College also conferred an honorary degree upon her. Her work with Professor Richards on the mineral industries was recognized by her election to the American Institute of Mining Engineers, a distinction given to few women. Death occurred in 1910 at her home in Jamaica Plain after a brief illness.

FIRST CHOICE MADE  
OF BEST GRID TEAM

Notre Dame, Pittsburgh, and  
Purdue Lead Rest of Field

Completion of the first or preliminary ballot by the national jury engaged in selecting the championship football team for the Albert Russell Erskine Award shows Notre Dame, Pittsburgh and Purdue in the lead, the committee of award announces. These three teams are sufficiently far ahead of the rest of the field so that their names will be submitted by the committee to the national jury, for the final selection of the gridiron champions.

In addition to these three leaders, twelve other colleges received votes in the preliminary ballot. These teams, whose votes were not sufficient to qualify them for a place on the final ballot were St. Mary's of California, Tulane, Southern California, Texas Christian, Tennessee, Yale, Dartmouth, North Carolina, Stanford, Colgate, Utah and California. Some of these teams received only one or two votes out of the total of 750 votes cast by the national jury of 250 sporting editors. Each jury member voted for three teams.

Immediately upon tabulation of the final ballot, the winner of the 1929 Erskine Award will be announced. In addition to the huge silver cup which will be presented to the victorious college to be held for one year, the coach of the team will receive a Studebaker sedan.

SOCIETY PRESENTS  
MOVIES ON HEATING

"Problems in Modern Industrial Heating and Ventilating" will be the subject of a talk which will be given by Mr. K. A. Taylor, of the York Heating and Ventilating Company of Philadelphia, at a meeting of the Mechanical Engineering Society next Wednesday at 4 o'clock in Room 10-275.

The talk will be illustrated by two reels of motion pictures, and will be of a practical nature. It is considered of special interest to Seniors in Course II, but anyone who is interested is invited to attend.

TECHNIQUE PHOTOS  
NEARLY COMPLETED

Considerable Advancement is  
Made Over Last Year's Work

Up to the present time the Photographic Service at the Institute has completed appropriately two thousand portraits, which number includes practically all of the Senior portraits. Approximately a thousand "group" pictures have also been taken. Since there are still some of these to be taken, they will be carried over to be taken during the next few weeks.

The improvement of the service since last year has been considered satisfactory to the members of the organization and to those who have had work done by them. Facts based on the comments of students and on the increased sales all point to the fact that there has been a marked advancement.

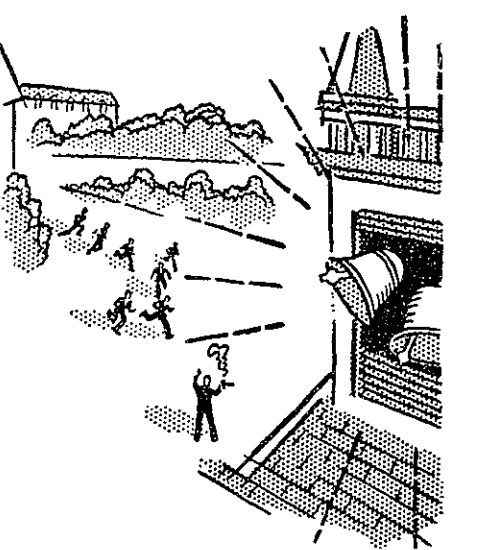
Due to the success of the Technique assignment, plans are being made for the taking of the graduation pictures, which will be available to the students after the thesis pictures have been produced.

At the present time the Institute's Photographic Service is well equipped. It can handle all kinds of work from simple photographs to photomicrographs, including lantern slides and retouching.

FRESHMEN PLANNING  
DANCE NEXT SPRING

Plans are now being made for a dance to be given by the Class of 1933 next spring, probably some time in the latter part of April. Nothing has been definitely decided yet, however.

The dance committee is composed of the class officers, and Edward J. Ribbs and George S. Menninger, both of the Class of 1933.



To pipes,  
Men,  
to Pipes!

TRADITION has it that ye shall know the fellowship of pipes with seasoned, masculine, mel-low men of every age and degree.

Some try to join this brotherhood, yet fail, and are absolved as born to pipeless lives. But honest effort is required—each man's own test with good tobacco in a good pipe.

That is the formula. Both pipe and tobacco must be good. The pipe must be pure of bowl, and the tobacco must be—

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# NOTICES - ANNOUNCEMENTS

## Of General Interest

### Whiting Concert

Room 10-250

Tuesday, January 7, 8:15 P. M.

The Second Concert in the series will be given by Mr. Arthur Whiting at the pianoforte.  
Open to students and members of the instructing staff.

## CALENDAR

Tuesday, January 7

4:00—Liberal Club Meeting, Room 3-270  
5:00—T. C. A. Cabinet Meeting, T. C. A. Office  
6:00—A. I. E. E. Lecture, North Hall, Walker Memorial  
7:30—Tech Show Rehearsal, Walker Gym

Wednesday, January 8

4:00—Mechanical Engineering Society Meeting, Room 10-275  
5:00—Tech Show Orchestra Rehearsal, East Lounge, Walker Memorial  
7:00—Tech Show Rehearsal, Walker Gym

Thursday, January 9

7:30—Tech Show Rehearsal, Walker Gym

Friday, January 10

8:00—Varsity Basketball Game, Hangar Gym  
8:00—Formal Dorm Dance, North Hall, Walker Memorial

Saturday, January 11

2:00—Gym Team Practice, Walker Gym

## UNDERGRADUATE

### MUSICAL CLUBS

All members of the Glee, Banjo, and Instrumental Clubs are requested to be present at the Edison Employees' Club at 1165 Massachusetts Avenue tonight at 8 o'clock for the Concert with the Edison Light.

### T. C. A. CABINET MEETING

The first T. C. A. cabinet meeting of the new year will be held Tuesday

at 5 p. m. Wilmer J. Kitchens, supervisor of College Christian Associations of New England will talk on student service.

### LIBERAL CLUB

There will be a meeting of the M. I. T. Liberal Club tomorrow at four o'clock in Room 3-270. Mr. Jose Kelly, Commissioner of Commerce in Mexico will speak on "The Truth about Mexico Today".

## LAUGH FOR HEALTH ADVISES DOCTOR

### Haw Haws and Giggles Massage Heart and Stimulate Its Action

It makes no difference whether it is a loud haw-haw or a gentle giggle, every kind of laughter has a helpful effect on the laughter. Some of the reasons in proof of that statement were given by Dr. Frederick D. Stricker, secretary of the Oregon state board of health, in a short resume of his physiological background of laughter.

"The uncomfortable feeling about the heart may in some cases be controlled to a great extent by the mind," he said. "Probably one of the most favorable influences exerted on the heart when there is considerable depression is that produced by laughter. Attendance at the theatre and other enjoyments of good hearty laughter have brought relief more than in any other way."

"It is very probable that this is due to the fact that up-and-down movement of the diaphragm in laughter causes direct massage of the heart and therefore stimulates its activity. The diaphragm action is particularly on the thin walled right heart, which lies along the diaphragm. It is in this part of the organ, however, that the cycle movement of the heart begins, and therefore it is not surprising that direct stimulation this way regulates the action of the heart."

"Perhaps the accessory effect of laughter on the lungs has something to do with the favorable action on the heart. The jerky movements of the diaphragm in the midst of hearty laughter, consequent upon the interrupted laryngeal sounds which accompany laughter, cause the air within the lungs to be confined to a rather higher pressure than usual, and this acts directly on the heart, pressing it and probably stimulating its activity. Perhaps, also, the increasing oxygenation of the blood due to laughter has something to do with the favorable influence that is noted."

The School of Pharmacy of Constantinople has appealed to the government for help in getting up interest among young Turks in drug stores. Not a single student registered this

Halfback Diedrich of Penn State pulled a Frank Merriwell or the like recently. Lafayette punted to Penn State with but a second or two to play and the score 3 to 0 in favor of Lafayette. While the ball was still in the air the final whistle blew, but the play had already started and the game would not be over until the ball was dead. Quarterback French caught the ball for Penn State on his 40-yard line and promptly tossed a lateral pass to Diedrich, who followed interference for 60 yards to score a touchdown and win the game.

## 1930 REVIEW SHOWS NEW DEVELOPMENTS

### Parallelism of Mathematics and Art Explained by Weiner

Technology Review for January was on sale at the Institute on Friday, but copies may still be obtained at the Review office in Room 11-203. The feature article of this issue is a study of the fundamental identities in the emotional aspects of mathematics and art. Professor Norbert Weiner in the discussion points out the striking parallel between artistic and mathematical interests in many great men.

The cover is a colored reproduction of the arch of Titus and is taken from a water color by Edgar I. Williams '08. "South America in 1929" by Thomas C. Desmond '09 gives an engineer's impressions of the Latin American countries and the life in many of the unfrequented places.

The progress in hydraulic laboratory research is discussed by John C. Freeman '12 and the closing article is "Economic Production Lots" in which Fairfield E. Raymond '21 shows how mathematics has come to the aid of industrial management.

Five students at Lehigh University were punished by the faculty for attempting to remove and deface the signs on the campus. This was preparatory to the Lafayette football game.

A new rushing system has been introduced at Ohio Wesleyan. Freshmen write down the names of from one to five fraternities they would like to visit. Fraternities, likewise, indicate new men they wish to have visit them. Later, a clearing house will be established, so fraternities and candidates will be released as nearly as possible.

## Play Directory

(Continued from Page 2)

of its stage prototype.

STATE: "Condemned". Ronald Colman on Devil's Island.

KEITH'S: "Paris". Irene Bordoni and some more "French atmosphere".

FENWAY: "Tiger Rose". Lively Lupe and a good supporting cast.

KEITH-ALBIE: "Little Johnny Jones". Adapted from George M. Cohan's play.

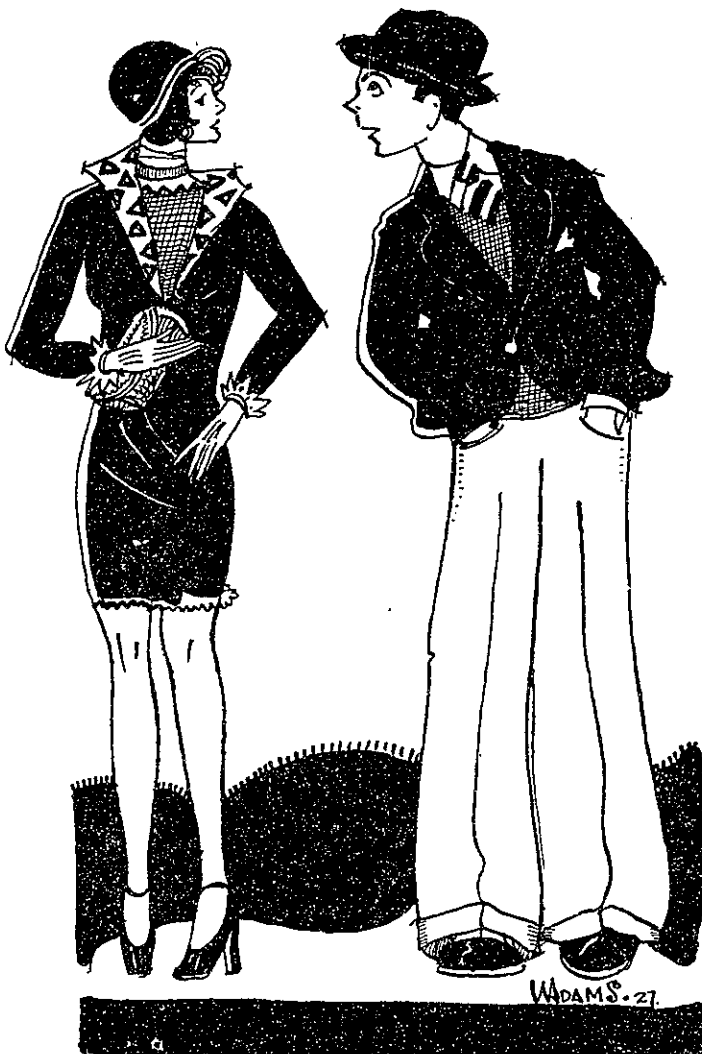
REPERTORY: "Kitty". An English made talkie.

PARK: "The Lost Zeppelin". South Pole Thriller.

ORPHEUM: "Navy Blues". Smart-aleck Bill Haines at his best.

When scholarships at the Ecole Centrale in Port au Prince, Haiti, were reduced recently, two hundred students, training as teachers, went on strike.

## JUST A PROM SIGNUP



5 BUCKS--WILL YA, HUH?

## Intercollegiates

Pawns, queens, bishops and knights are being transferred from place to place this year by means of radio. The chess teams of Minnesota and Wisconsin universities played the first intercollegiate contest this year.

By a unanimous decision the interfraternity council at the University of Illinois voted to petition the council of administration for permission to hold one dance a year which would last until 2 a. m.

St. Ignace College in California has set a new style in football etiquette. Its team has two captains—one for the offense and one for the defensive work.

At Ohio State, every Wednesday at 11 a. m., taps are blown in honor of the students and alumni killed in action in the World War. This formality has been observed by the military department ever since the close of the war. Everybody within sound of the bugle stands with head uncovered. Students in uniform stand at attention in the position of salute.

An Indiana man was fishing in Eel river in the northern part of the state when he lost his watch in the water. Three weeks later he caught a large pike in whose stomach he found the watch. The striking thing about the incident was that the watch had not run down. It had been wound by the movement of the muscles of the fish's stomach walls in the process of digestion.

Don't kiss the girls, especially when they are abstaining from food for the sake of a slender figure, was the statement issued by the Chicago Dental Society. The society stated that "trench-mouth" is common among girls who are on a diet as dieting lowers their resistance and makes them susceptible to the disease when they come into contact with it by osculatory methods.

Starting with four hundred books bequeathed by John Harvard in 1638, the libraries of Harvard University have grown so steadily that 2,734,300 volumes, according to the last counting, now rest on the university shelves. From 60,000 to 70,000 volumes are cordially added each year, either by gift or purchase.

Last week the house of the dean of men at Drake University was discolored by rotten eggs supposedly thrown by students in protest to the suspension of the six Drake cheer leaders for using paint brushes on the Ames campus. Everything has been quiet on the Drake Campus since the egg throwing, and no further trouble is expected, reports predict.

The effectiveness of 102 different seasickness remedies is to be tested by a group of German physicians who have placed themselves at the mercy of the rough Baltic Sea in a small steamer. They plan to spend three months in small boats testing the remedies on themselves and passengers of steamers.

Co-education as an American college institution began 98 years ago, but it is difficult for Albert Brown, Oberlin college freshman from Jackson, Michigan, to realize it. In 1843, ten years after Oberlin College was formed, and began admitting women students with the men, Brown's great-grandfather met his great-grandmother there. All four of Brown's grand-parents were Oberlin students, their marriages climaxing college romances. Albert's father likewise found his mother at Oberlin, and three of his aunts met their future husbands in the student body there. Although Freshman Brown hesitates to commit himself, he declares after looking around that he is not decided as yet to let the tradition drop.

After more than a year of planning and work on the part of the students of the University of Oregon, a film has been produced which is said to be the longest, most elaborate, and most expensive picture ever made by an American university or college group. It is entitled the "Co-ed" and was made entirely with campus talent. When the call for actors went out 535 students responded and took screen tests.

A Wheatstone Bridge is used to find breaks in undersea cable caused by earthquakes and similar phenomena. When a cable breaks, the copper wire is exposed to the salt water, which forms a conducting path for the current. The resistance of the circuit thus formed is measured by means of the Wheatstone Bridge. The distance of the break from land is then computed from the known resistance per mile of the cable.

The Federal Government is constructing, at Grand Island, Nebraska, a radio frequency monitoring station which will be used to check up on the frequencies of all radio stations throughout the country. It will also be used for experimental work in connection with radio transmission. The site chosen is about the geographical center of the country. The measuring apparatus in the station will be accurate to within one part in a million.

A new theory concerning the cause of spontaneous combustion in hay and other farm products is advanced by a scientist in the Federal Department of Agriculture. He assigns the cause to bacteria, the presence of which causes the formation of unstable unsaturated compounds. These compounds are slowly oxidized by oxygen from the air, and the heat generated by this chemical reaction raises the temperature of the hay to over 600 degrees Fahrenheit, which is the temperature necessary for ignition.

Water cooled and Prestone cooled engines are taking the place of air cooled engines in airplanes designed for military use. The reason for this preference is that the air cooled engine cuts the visibility of the pilot to a degree intolerable where combat is concerned. The one great disadvantage of the air cooled engine is the difficulty of getting the proper adjustment for the greatest efficiency at high speeds.

## VINCENTS WILL PLAY FOR ANNUAL DANCE

Paul Vincents and his orchestra will furnish the music for the annual Intercollegiate Ball to be held at the Copley Plaza Hotel on February 14th. The festivities will begin at nine o'clock and last until two. Tickets may be secured from Harmon J. Truax '31 at THE TECH business office, and the cashier in charge of the recreation halls in Walker Memorial basement.

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1080 Boylston Street  
34 Bromfield Street  
540 Commonwealth Avenue  
204 Dartmouth Street

Allston

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Cambridge

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